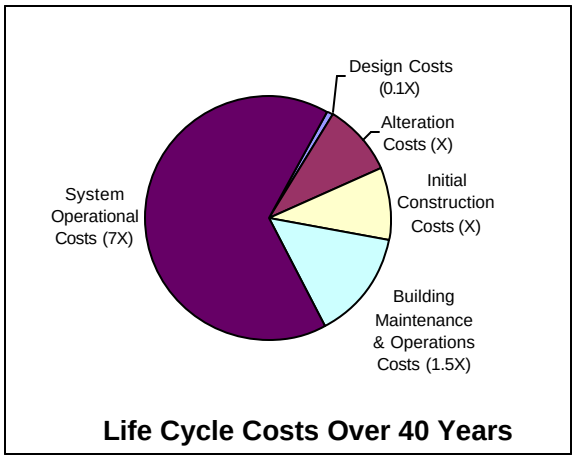
Colorado Governor's Office of Energy Management and Conservation

Rebuild COLORADO

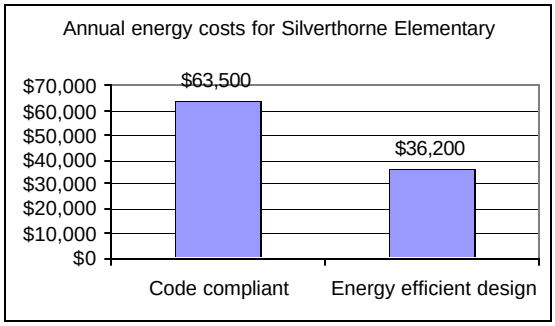
Top Strategies for High-Performance Building Design

1. Find a champion and establish your internal team
2. Establish design guidelines to solidify team's goals for energy, water and resource choices
3. Include high-performance design criteria in RFQs, RFPs and contracts
4. Specify energy performance targets: Energy Star label, 50% better than ASHRAE Std 90.1-1999, LEED, $/sf, etc
5. Specify water performance targets for indoor and outdoor uses.
6. Establish contracts that encourage collaboration and excellence in sustainable and high-performance design
7. Base decision-making on life-cycle cost analyses
8. Evaluate costs and conduct value engineering only from a whole building perspective
9. Seek out similar exemplary projects for resources and lessons learned
10. Develop an energy model that evolves with and informs the entire design process
11. Expand timeline to evaluate new systems and products and analyze with energy model
12. Include an energy-efficiency specialist on the team
13. Include commissioning to ensure the building operates as intended
14. Work with energy and water utilities to help identify and pay for efficiency upgrades

The initial design and construction costs of a building are dwarfed by the lifetime operating costs.



High-performance design yields projected savings of 44% for Summit Schools new elementary schools



225 E. 16th Ave, Suite 650, Denver CO 80203 ? 303-894-2383 ? 1-800-632-6662 ? Fax 303-894-2388 ? e-mail rebuildco@state.co.us ? www.colorado.gov/rebuildco

Rev: 03/11/03